

ABSTRACT

An optical device, typically including an image receiving device such as a charged coupled device (CCD) array and an objective lens, is positioned oblique to an object plane. The optical device ensures that the plane of the image receiving device, the plane of the object lens, and the object plane all intersect along a common line such that the entire object plane is in focus on the image receiving device. The positions of the image receiving device, the objective lens and/or the object plane can be manually or automatically adjusted. The invention is useful to obtain an enlarged, focused image of a work piece that is disposed in a plane transverse, but not perpendicular, to the viewing axis of the optical device.